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Defense

Appropriation Bill:

Defense

Project Name:

Gentle Medical Tapes and Dressings for Fragile, Damaged or Sensitive Skin

Amount:

\$1.5 million

Recipient Name:

3M

Recipient Address:

3M Center, Building 0224-2-S-25, Saint Paul, MN, 55144

Explanation of Request:

The project will benefit both the military and the civilian population helping to reduce infections, which

Appropriation Bill:

Defense

Project Name:

HiSentinel

Amount:

\$1.5 million

Recipient Name:

Aerostar, Inc.

Recipient Address:

1814 F Avenue , Sioux Falls, SD, 57104

Explanation of Request:

This funding will continue the HiSentinel program under development by the Army Space & Missile De

Appropriation Bill:

Defense

Project Name:

MEMS Microdetonator Packaging Technology for Advanced DOD Weapons

Amount:

\$1 million

Recipient Name:

Black Hills Nanosystems

Recipient Address:

1350 Concourse Drive , Suite A, Rapid City, SD, 57703

Explanation of Request:

MEMS Safe & Arm (S&A) devices ensure personnel safety by reducing the risk of unintended detonation

Appropriation Bill:

Defense

Project Name:

Exploding Foil Initiators with Nanomaterial-Based Circuits

Amount:

\$1 million

Recipient Name:

Black Hills Nanosystems

Recipient Address:

1350 Concourse Drive , Suite A, Rapid City, SD, 57703

Explanation of Request:

Exploding Foil Initiators (“EFI”) can save lives by reducing unintended detonation, while their high reliability

The requested funds will enable further ramp-up of the technology into manufacturing, providing jobs

Appropriation Bill:

Defense

Project Name:

B-1 AESA Radar Operational Utility Evaluation

Amount:

\$2 million

Recipient Name:

Boeing

Recipient Address:

The Boeing Company, 1200 Wilson Boulevard, Arlington, VA 22209

Explanation of Request:

This request supports an operational evaluation of an advanced targeting radar, the Active Electronics

Appropriation Bill:

Defense

Project Name:

Next Generation Lightweight Drive Systems for Army Weapon Systems

Amount:

\$1 million

Recipient Name:

Dakota Power

Recipient Address:

3111 Lien Street , Rapid City, SD, 57702

Explanation of Request:

This request will help advance a new technology to more efficiently power military and civilian vehicles.

Appropriation Bill:

Defense

Project Name:

Optimization, and Transfer of a Reliable Testing Technology for Materials Designed to Protect War-fighters

Amount:

\$650,000

Recipient Name:

EMCC

Recipient Address:

525 University Loop, Suite 113, Rapid City, SD, 57701

Explanation of Request:

In addition to addressing this consequential war-fighter protective application within the Department of

EMCC is located on the campus of the South Dakota School of Mines & Technology and has a form

Appropriation Bill:

Defense

Project Name:

Airborne Commercial IfSAR Mapping Production

Amount:

\$1 million

Recipient Name:

Fugro Earth Data, Inc

Recipient Address:

3600 Jet Drive , Rapid City, SD, 57703

Explanation of Request:

The U.S. Military Combatant Commanders and the intelligence community have unfunded, high-priori

Appropriation Bill:

Defense

Project Name:

IVHMS for UH-72A Lakota

Amount:

\$1 million

Recipient Name:

Goodrich Corporation

Recipient Address:

100 Panton Road, Vergennes, VT 05491

Explanation of Request:

The Lakota fleet performs critical multi-role missions including; medical evacuation, transport, drug int

Raven Industries in Sioux Falls is a key sub-contractor for the Goodrich Corporation, which is the main

Appropriation Bill:

Defense

Project Name:

Preventative Maintenance using Kinetic Particle Deposition Technology

Amount:

\$1 million

Recipient Name:

H.F. Webster, Inc.

Recipient Address:

4020 Jackson Boulevard, Suite 4, Rapid City, SD, 57702

Explanation of Request:

This funding would develop and qualify specific repair procedures for military equipment using kinetic

Appropriation Bill:

Defense

Project Name:

Aging and Battle Damaged Weapon Systems Repair

Amount:

\$1.5 million

Recipient Name:

H.F. Webster, Inc.

Recipient Address:

4020 Jackson Boulevard, Suite 4, Rapid City, SD, 57702

Explanation of Request:

Repair requirements for Army and Marine ground vehicles returning from Iraq and Afghanistan are ex
The purpose of this funding request is to identify opportunities for cost savings associated with applyin

Appropriation Bill:

Defense

Project Name:

Stabilized Hemoglobin Wound Healing Development Project

Amount:

\$1.5 million

Recipient Name:

IKOR

Recipient Address:

212 South Kline Street, 3rd Floor, Aberdeen, South Dakota, 57401

Explanation of Request:

This cutting edge project holds potential not only as a wound-healing advancement that can benefit th

Appropriation Bill:

Defense

Project Name:

Advanced Robot and Sensor Technology for Surveillance and Energy Efficiency Applications

Amount:

\$1 million

Recipient Name:

Lloyd's Systems

Recipient Address:

2911 West Omaha Street, Rapid City, SD, 57702

Explanation of Request:

The Army has identified among the top ten needs of the warfighter reducing the energy footprint, battl

Appropriation Bill:

Defense

Project Name:

LITENING Generation 4 Pod Kit Upgrades for Air National Guard

Amount:

\$1 million

Recipient Name:

Northrup Grumman (for South Dakota Air Guard)

Recipient Address:

1201 West Algonquin Street, Sioux Falls, SD, 57104

Explanation of Request:

The LG4 Enhancement kit provides a new 4th Generation Forward Looking Infrared sensor, 4th Gene

Appropriation Bill:

Defense

Project Name:

All-Terrain Ultra Lightweight Tactical Utility Vehicles

Amount:

\$1 million

Recipient Name:

Polaris

Recipient Address:

2100 Highway 55, Medina, MN, 55340

Explanation of Request:

The requested action is an efficient use of taxpayer dollars because the product that would be procure

Appropriation Bill:

Defense

Project Name:

Advanced Electronics Rosebud Integration (AERI)

Amount:

\$2.5 million

Recipient Name:

Rosebud Sioux Tribe

Recipient Address:

11 Legion Avenue, Rosebud, South Dakota, 57570

Explanation of Request:

Funding will be used to build, test, demonstrate and conduct replicated field trials of electronic circuitry

Appropriation Bill:

Defense

Project Name:

Life Extension of Navy Weapon System Structures Through Application of Advanced Materials Process

Amount:

\$1 million

Recipient Name:

South Dakota School of Mines & Technology

Recipient Address:

501 East Saint Joseph Street, Rapid City, SD, 57701

Explanation of Request:

The School of Mines is the lead institution for one of the nation's premier NSF Industry/University Collaborative Centers.

Repairing and returning our military resources to service is a huge and expensive challenge facing our nation.

Appropriation Bill:

Defense

Project Name:

Smart Integrated Systems (SIS): Materials, Manufacturing Methods, and Structures (M3S)

Amount:

\$2 million

Recipient Name:

South Dakota School of Mines & Technology

Recipient Address:

501 East Saint Joseph Street, Rapid City, SD, 57701

Explanation of Request:

The format for this Department of Defense request is unique as it bundles six topically related projects

Appropriation Bill:

Defense

Project Name:

Energy Efficiency, Recovery and Generation – ENERGY

Amount:

\$1 million

Recipient Name:

South Dakota School of Mines & Technology

Recipient Address:

501 East Saint Joseph Street, Rapid City, SD, 57701

Explanation of Request:

The ENERGY project focuses on the primary Air Force energy demand, which is fuel for jet engines. T

Appropriation Bill:

Defense

Project Name:

Multi-Utility Materials (MUM) for Army Future Combat

Amount:

\$1.5 million

Recipient Name:

South Dakota School of Mines & Technology

Recipient Address:

501 East Saint Joseph Street, Rapid City, SD, 57701

Explanation of Request:

This request supports the successful collaboration between Florida A&M, Iowa State University and S
For South Dakota specifically, the technologies involved in the prototyping and manufacturing process

Appropriation Bill:

Defense

Project Name:

Alternative Power Technology for Missile Defense

Amount:

\$2 million

Recipient Name:

South Dakota State University

Recipient Address:

PO Box 2201, SAD 130, Brookings, SD, 57007

Explanation of Request:

Critical need exists for alternative power generation systems that are efficient, environmentally clean,

Appropriation Bill:

Defense

Project Name:

Renewable Jet Fuel from Lignocellulosic Feedstocks

Amount:

\$1.5 million

Recipient Name:

South Dakota State University

Recipient Address:

PO Box 2201, SAD 130, Brookings, SD, 57007

Explanation of Request:

The US Army at Army Research Lab (ARL) is currently developing concepts for the next generation of

Appropriation Bill:

Defense

Project Name:

Accelerated Materials Development and Characterization for Army Cannon Systems

Amount:

\$1 million

Recipient Name:

South Dakota State University

Recipient Address:

PO Box 2201, SAD 130, Brookings, SD, 57007

Explanation of Request:

In addition to serving the Army's goal of evaluating the next generation of cannon systems, the added

Appropriation Bill:

Defense

Project Name:

Predicting Bio-Agent Threat Profiles

Amount:

\$1 million

Recipient Name:

South Dakota State University

Recipient Address:

PO Box 2201, SAD 130, Brookings, SD, 57007

Explanation of Request:

This program develops a bio-agent prediction capability to forecast terrorist threats. The release of de

Appropriation Bill:

Defense

Project Name:

Underground Mapping

Amount:

\$1 million

Recipient Name:

South Dakota State University

Recipient Address:

PO Box 2201, SAD 130, Brookings, SD, 57007

Explanation of Request:

The Deep Underground Science & Engineering Laboratory (DUSEL) comprises a complex of shafts, t

Appropriation Bill:

Defense

Project Name:

Center for Engineered Biomedical Devices at the University of South Dakota

Amount:

\$395,000

Recipient Name:

University of South Dakota

Recipient Address:

501 East Saint Joseph Street, Rapid City, SD, 57701

Explanation of Request:

The Center for Engineered Biomedical Devices at The University of South Dakota (CEBD) is a valuable

Appropriation Bill:

Defense

Project Name:

USD Consortium on Traumatic Brain Injury and Post-Traumatic Stress Disorder

Amount:

\$1 million

Recipient Name:

University of South Dakota

Recipient Address:

414 East Clark Street , Vermillion, SD, 57069

Explanation of Request:

The University of South Dakota Consortium on Traumatic Brain Injury and Post-Traumatic Stress Disorder